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TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/039,799	
		Filing Date	January 4, 2002	
		First Named Inventor	James Bruce Pitner	
		Art Unit	1654	
		Examiner Name	Examiner Name Teller, R.	
Total Number of Pages in Th	his Submission	Attorney Docket Number	0709.018.0002	
	E	NCLOSURES (Check all the	at apply)	
	claration(s) Request ent Request ure Statement iority Request	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Add Terminal Disclaimer Request for Refund CD, Number of CD(s)	to C App of A App (Ap Pro Sta	er Allowance communication Group Deal Communication to Board Appeals and Interferences Deal Communication to Group Deal Notice, Brief, Reply Brief) Prietary Information Itus Letter Der Enclosure(s) (please Delivity below):
	SIGNATUR	RE OF APPLICANT, ATTORN	NEY, OR AGENT	
	Todd B. Buck (Reg. No. 48,574) Castellano, Malm, Ferrario & Buck			
Signature	and Be	Sa		
Date July 21, 2		77.9		
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THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Pitner et al.

Appl. No. 10/039,799

Filed: January 4, 2002

For: Binding Protein as Biosensors

Art Unit: 1654

Examiner: Teller, R.

Atty. Docket: 0709.018.0002

Reply and Amendment under 37 C.F.R. §§1.111 and 1.121

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This reply and amendment is submitted under 37 C.F.R. §§1.111 and 1.121 and is responsive to the Office Action mailed April 22, 2004.

Amendments

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (original) A biosensor comprising:
 - a) at least one mutated binding protein and at least one thiol group attached thereto; and
 - b) at least one sensor surface wherein said mutated binding protein is coupled through said thiol group to said surface;

wherein said at least one sensor surface provides a detectable signal resulting from a change in refractive index when said mutated binding protein binds to analyte.